

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P399812

Luminaire Tested: **ARCH-L-PA3-190-827-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-827-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20977 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

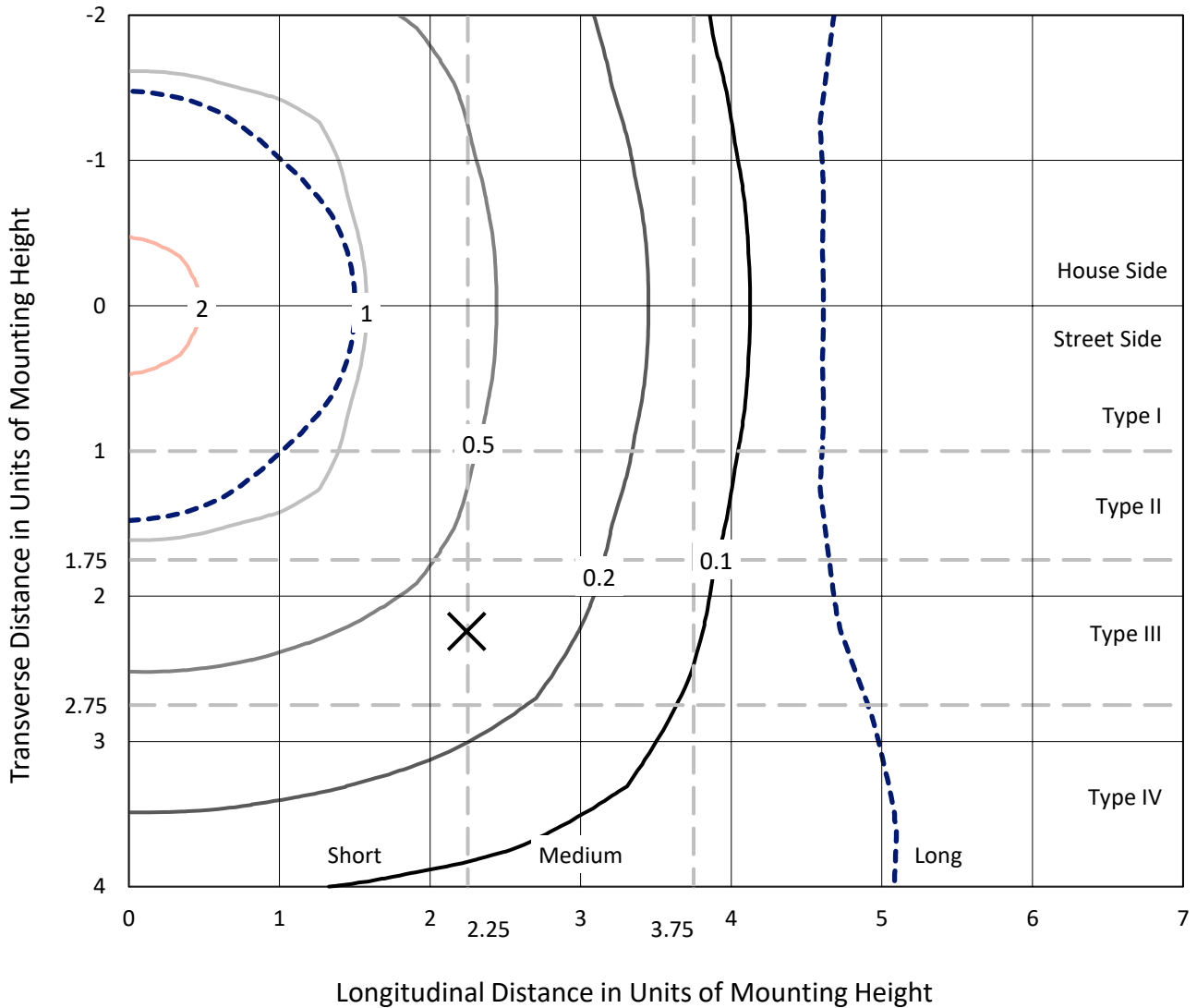
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

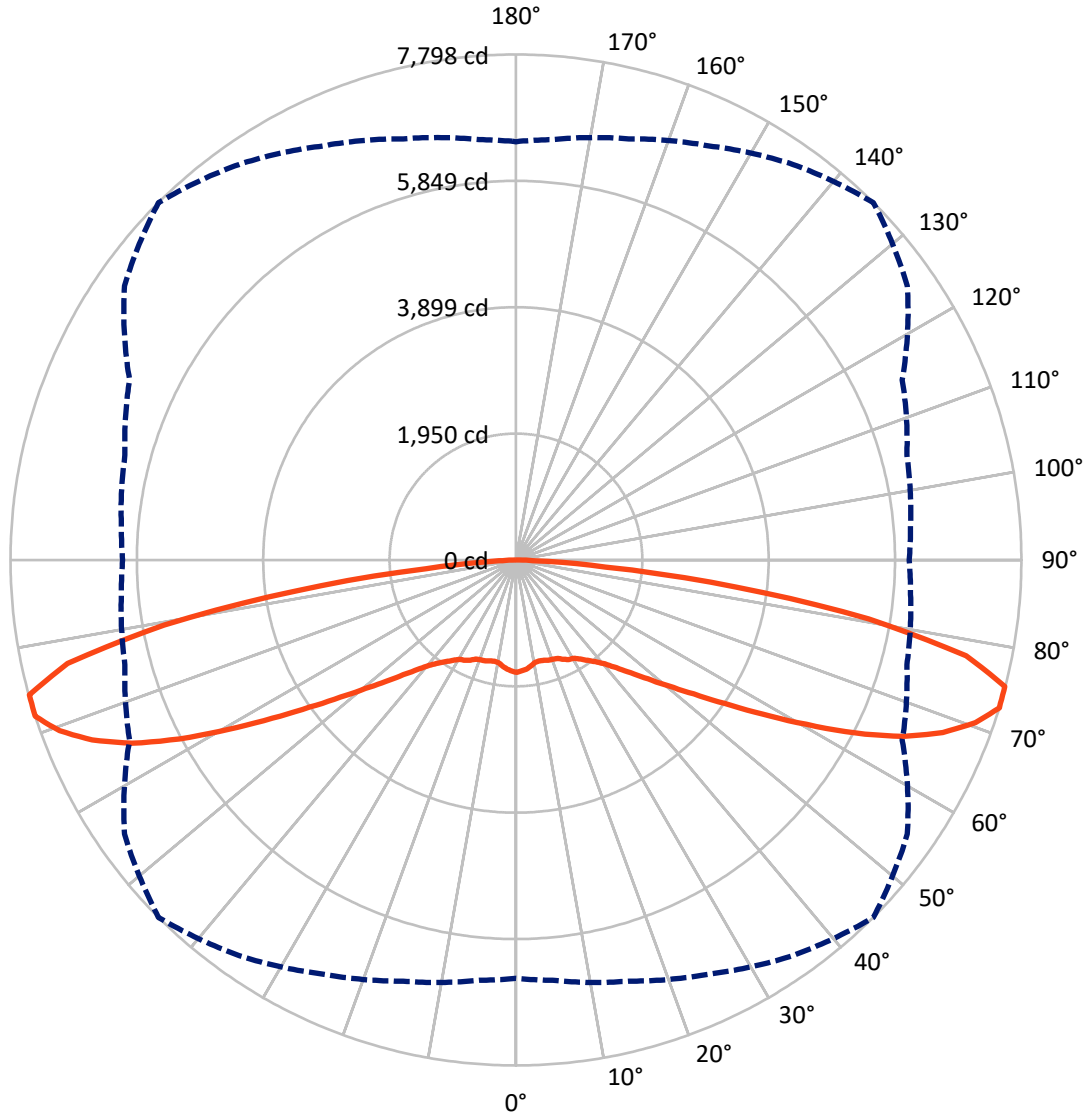
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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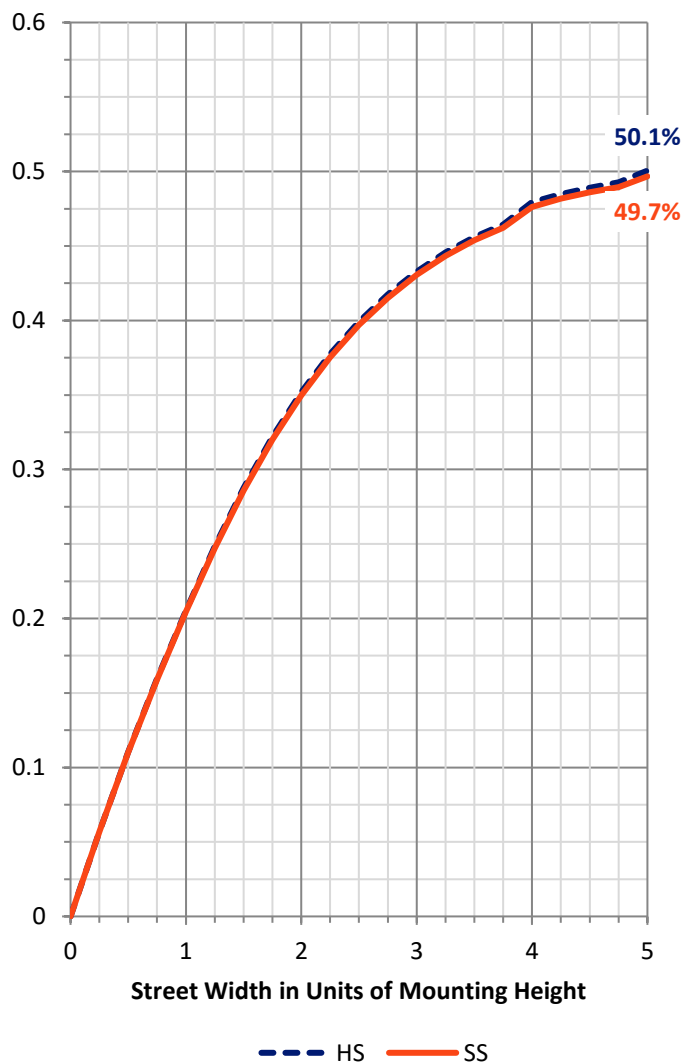
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10488.5	0.0	10488.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10488.5	0.0	10488.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20977.0	0.0	20977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	0.8
10°-20°	462.0	2.2
20°-30°	785.1	3.7
30°-40°	1197.5	5.7
40°-50°	1971.7	9.4
50°-60°	3443.2	16.4
60°-70°	5772.7	27.5
70°-80°	6178.0	29.5
80°-90°	1007.6	4.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20977.0	100.0
0°-180°	20977.0	100.0

Coefficient of Utilization

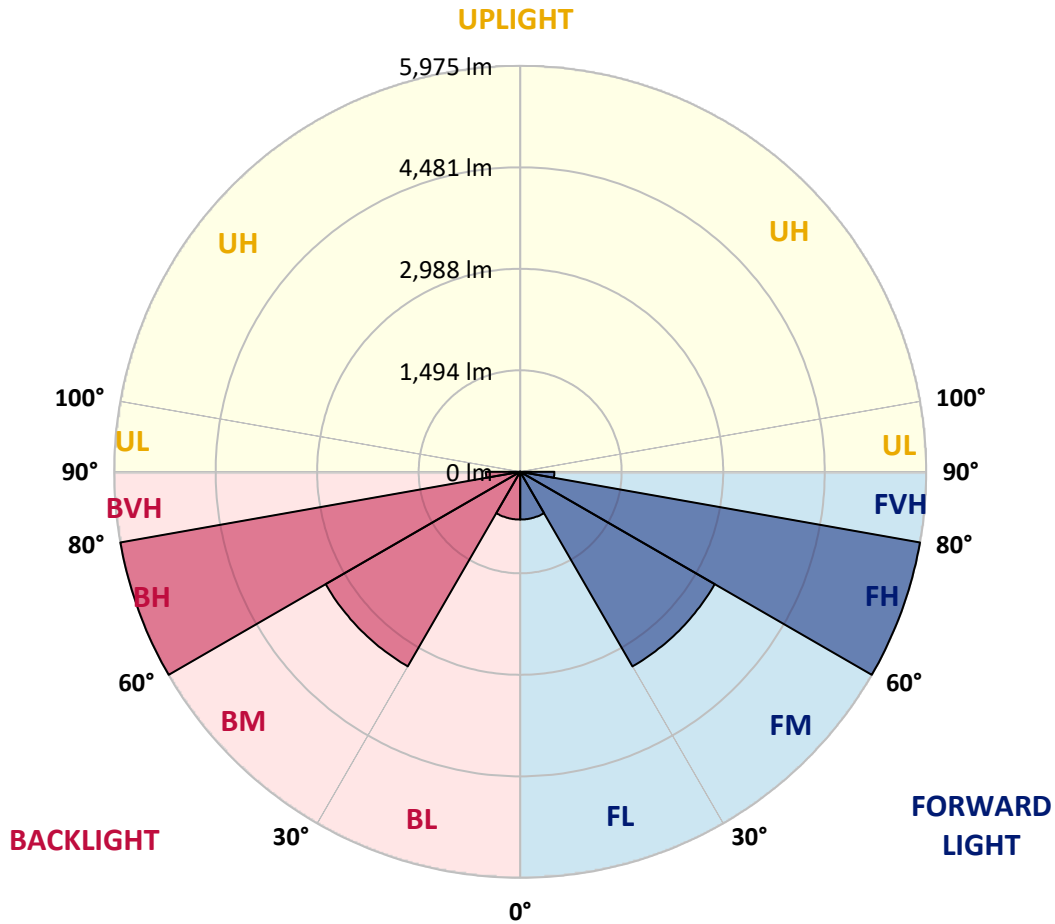


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.1	3.4			
FM (30°-60°)	3306.2	15.8			
FH (60°-80°)	5975.3	28.5			G3/7500
FVH (80°-90°)	503.8	2.4			G4/750
BL (0°-30°)	703.1	3.4	B2/1000		
BM (30°-60°)	3306.2	15.8	B3/5000		
BH (60°-80°)	5975.3	28.5	B5		G3/7500
BVH (80°-90°)	503.8	2.4			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9
2.5°	1725.2	1725.2	1725.2	1722.5	1717.1	1714.4	1709.1	1711.8	1711.8	1711.8	1711.8
5°	1703.7	1703.7	1701.0	1698.4	1693.0	1690.3	1685.0	1690.3	1690.3	1690.3	1690.3
7.5°	1663.5	1666.2	1666.2	1663.5	1655.5	1652.8	1644.8	1647.5	1647.5	1650.1	1647.5
10°	1642.1	1642.1	1639.4	1626.0	1612.6	1607.3	1604.6	1612.6	1620.7	1628.7	1628.7
12.5°	1642.1	1642.1	1636.8	1615.3	1596.6	1596.6	1596.6	1607.3	1623.4	1639.4	1642.1
15°	1650.1	1650.1	1639.4	1615.3	1604.6	1607.3	1607.3	1618.0	1636.8	1658.2	1660.9
17.5°	1655.5	1655.5	1642.1	1618.0	1618.0	1626.0	1620.7	1628.7	1647.5	1671.6	1674.3
20°	1663.5	1663.5	1644.8	1626.0	1626.0	1634.1	1634.1	1642.1	1658.2	1682.3	1685.0
22.5°	1679.6	1676.9	1658.2	1642.1	1642.1	1647.5	1652.8	1663.5	1676.9	1698.4	1703.7
25°	1698.4	1698.4	1682.3	1679.6	1685.0	1698.4	1695.7	1693.0	1698.4	1717.1	1725.2
27.5°	1709.1	1709.1	1698.4	1706.4	1727.8	1738.5	1725.2	1714.4	1714.4	1733.2	1735.9
30°	1743.9	1741.2	1730.5	1735.9	1754.6	1760.0	1751.9	1738.5	1746.6	1768.0	1770.7
32.5°	1802.8	1802.8	1786.8	1786.8	1800.2	1821.6	1794.8	1786.8	1797.5	1821.6	1824.3
35°	1893.9	1893.9	1872.5	1861.8	1872.5	1902.0	1861.8	1859.1	1877.8	1904.6	1907.3
37.5°	2009.1	2009.1	1995.7	1968.9	1971.6	1990.4	1955.5	1952.9	1987.7	2017.1	2017.1
40°	2153.8	2161.8	2148.4	2116.3	2105.5	2108.2	2081.4	2084.1	2124.3	2159.1	2159.1
42.5°	2333.2	2338.6	2317.2	2293.1	2279.7	2271.6	2244.8	2250.2	2298.4	2344.0	2344.0
45°	2550.2	2552.9	2531.5	2502.0	2485.9	2480.6	2453.8	2467.2	2520.8	2569.0	2566.3
47.5°	2794.0	2796.7	2775.2	2745.8	2735.1	2743.1	2716.3	2716.3	2764.5	2804.7	2799.4
50°	3069.9	3075.3	3051.2	3037.8	3029.7	3051.2	3019.0	2989.6	3021.7	3061.9	3056.5
52.5°	3375.3	3388.7	3372.6	3378.0	3407.4	3434.2	3380.7	3316.4	3332.4	3359.2	3351.2
55°	3745.0	3761.1	3766.4	3785.2	3862.8	3908.4	3820.0	3712.8	3704.8	3707.5	3694.1
57.5°	4160.2	4170.9	4205.7	4248.6	4409.3	4481.7	4342.4	4157.5	4098.6	4063.8	4055.7
60°	4578.1	4596.8	4682.6	4771.0	5017.4	5148.7	4934.4	4623.6	4497.7	4433.4	4420.0
62.5°	4998.7	5036.2	5175.5	5325.5	5684.4	5880.0	5550.5	5100.5	4918.3	4837.9	4816.5
65°	5486.2	5531.7	5700.5	5890.7	6289.9	6565.8	6166.6	5593.4	5397.8	5290.7	5263.9
67.5°	6056.8	6105.0	6241.6	6453.3	6831.0	7101.5	6747.9	6097.0	5842.5	5705.9	5684.4
70°	6525.6	6568.4	6715.8	6930.1	7211.4	7519.4	7181.9	6498.8	6268.4	6172.0	6158.6
72.5°	6453.3	6509.5	6726.5	7048.0	7449.8	7798.0	7372.1	6576.5	6244.3	6110.4	6067.5
75°	5636.2	5697.8	5955.0	6536.3	7270.3	7790.0	7096.2	6059.5	5668.4	5555.9	5534.4
77.5°	3731.6	3790.5	4224.5	5140.6	6348.8	7098.9	6263.1	5076.3	4446.8	4176.3	4160.2
80°	1508.2	1583.2	1998.4	2970.8	4500.4	5518.4	4645.1	3249.4	2191.3	1768.0	1682.3
82.5°	350.9	417.9	608.1	1095.6	2303.8	3436.9	2504.7	1213.5	704.5	500.9	450.0
85°	147.3	150.0	259.8	356.3	720.6	1387.6	819.7	442.0	359.0	262.5	257.2
87.5°	56.3	58.9	125.9	150.0	230.4	262.5	278.6	227.7	211.6	131.3	125.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)